

Amendments to the Specification

Please amend the Specification as follows:

Please replace the last paragraph on Page 9 with the following rewritten paragraph:

-- At any instant in time, the signals generated by sensor coils 27, 28 and 29 comprise components of the specific frequencies in sets $\{\omega_1\}$, $\{\omega_2\}$ and $\{\omega_3\}$ being generated by the radiator coils. The respective amplitudes of these signals are dependent on the position and orientation of probe 20 relative to the positions and orientations of the radiator coils. The signals generated by sensor coils 27, 28 and 29 are conveyed via leads 33a to the proximal end of the probe, for processing by signal processing circuitry 34. Leads 33a typically comprise twisted pairs to reduce pick-up and may be further electrically shielded. The processed sensor signals are then used by computer 36, together with a representation of the signals used to drive radiator coils 22, 24 and 26, to calculate position and orientation coordinates of probe 20. --